

MATHEMATICS

The Automorphism Group of a Linear Code.

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We analyze several aspects of S_n modules over the finite vector space $(\mathbb{Z}/2\mathbb{Z})_n$. In particular, we study the Automorphism Groups of this vector space, along with those of its proper subspaces. We establish a class of subgroups of S_n , each member of which cannot be the Automorphism Group of a class of subspaces. We also give a set of conditions that admissible Automorphism Groups must satisfy.